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SUBJECT: (Optional)		G AND	RECUR	D SUCEI		
	T. D	- 4		Constituted for the special of the		
SSCI Questions on the SAF	E Proje	ct	EXTENSION	82-0584/2		
Harry E. Fitzwater			LATEINSTOIN	DDA 82-0538/6		
Deputy Director for Admin 7D 24 Hqs	istrati	on		DATE 12 March 1982		
TO: (Officer designation, room number, and building)	D.	ATE	OFFICER'S	COMMENTS (Number each comment to show from whom		
	RECEIVED FORWARDED		INITIALS	to whom. Draw a line across column after each comment.)		
1. Director of Central Intelligence 7D_5607_Hqs				DCI,		
2.				The attached contains questions raised by the SSCI following D/DIA's briefing on the DIA FY'83 budget.		
3.			***************************************	The answers were prepared by DIA with assistance from the SAFE Project Office This may help you with your discussion		
<i>&</i> .				with STAP on Monday, 15 March.		
3.				Harry		
6.				Att		
7.				cc: DDCI ExDir		
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FORM 610 USE PREVIOUS EDITIONS

SAFE has been of considerable interest to this Committee since FY 1978 when the joint CIA-DIA development effort was authorized. The Committee has authorized the full SAFE budget request on the basis that joint system development was cost effective and represented the best approach to satisfy the ADP needs of both agency's analytical elements.

(a) (U) In terms of the hardware and software required to implement the system design, what major difficulties are being faced? What are the IMPACTS in terms of schedule and cost? Relative to original cost estimates, what is the expected size of the cost overrun to IOC and FOC?

- (U) Initially, the system design was planned around an advanced software technology that was at the edge of "state-of-the-art". This design approach proved infeasible to implement and after about 9 months research, redesign was required using the traditional transaction processing software as a base.
- (U) Currently the project is proceeding around a detailed system design for Block 1 (CIA Block) and an overall top level design for the entire project. The major hardware and software difficulties being faced are categorized as follows:
 - -- Integration of SAFE user language into the software design.
 - -- Inadequate integration of failure and error recovery procedures.
- -- More hardware may be needed to meet performance requirements under user loading at FOC.
- (U) These technical issues have been identified and design alternatives are being evaluated by the government and the contractor.
- (U) The impacts of these technical issues on the project cost and schedule are being addressed by a technical audit of the project currently underway within the government. As a minimum the schedule delay for Block 1 is estimated by the contractor to be 10 months. This estimate and an estimate of the cost impact will be finalized after the results of the audit. Tentatively, it is estimated that the

project co	osts through Block 4 development will increase in the range of 30 to 60
percent ov	ver the original estimates part of which are cost for Data Base conversion
not adequa	ately covered in the original estimate. The FY83 budget includes 25X
of	f the total increase. One of the tasks of the audit group is to assess the $^{25\mathrm{X}}$
estimated	cost of the system in relation to the original estimates. These estimates
will be pr	rovided as soon as they are available.

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(b) (U) Identify the cause of major schedule and cost deviations in terms of technical and managerial deficiencies on the part of the prime contractor.

- (U) The causes of major schedule and cost deviations in terms of technical and managerial deficiencies on the part of the prime contractor are interrelated, but are generally presented as follows:
- -- From a technical viewpoint, the complexity of the integration of both agencies' requirements and the system design was underestimated by the contractor and the government. Technically the system design was very complex for a very large system. As the contractor's understanding of the details and intricacies of the requirements increased and design was expanded, the costs and schedules became more realistic. Over the last few months, the major technical and remaining design issues have been identified. Our audit should reveal whether and how quickly these issues can be resolved.
- -- From a managerial viewpoint, the contractor has been deficient in a number of areas in managing the project. For example, a firm project plan was late in being developed, a detailed PERT plan for Block 1 was late in being completed, and key technical personnel were replaced on the project over the past several months. All of the deficiencies have contributed to the project delays and caused cost increases.

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(c) (U) For each major deviation identified above, describe what action was taken by the Joint Project Office to place development of SAFE back on schedule.

Answer:

- (U) Actions have been taken by the CSPO to remedy the problems and place the project on schedule.
- (U) In the technical arena:
- -- Increased DIA/CIA analyst contact with the contractor through workshops to further define requirements and reduce system design complexities.
- -- Conducted In-Progress Reviews and Design Reviews in Communications subsystem, System level design and Block 1 overall design to assess the status of project design and, to the maximum extent possible, resolve technical issues.
- -- As a result of the system Preliminary Design Review (PDR) held in March 1981, the Government and the Contractor agreed to develop the system in blocks in order to reduce complexity and divide the system development into more manageable pieces.
- -- Worked with the contractor to develop a phased implementation plan for incremental deliveries of Block 1 capabilities as a testbed system.
- -- Provided specific written guidance to the contractor management structure regarding technical problems and potential solutions resulting from Block 1 PDR in Nov 81 Jan 82.
- (U) From a managerial viewpoint, the CSPO and the Government took actions in the following areas:
 - -- Directed the contractor to employ a detailed project plan supported by

an automated PERT scheduling tool for planning and controlling work schedules and software development.

- -- Placed an on-site management representative ______in July 1981 to provide day-to-day feedback on the project.
- -- Drastically reduced the award fee to "marginal" levels with accompanying guidance to the contractor to focus management attention on areas of technical and managerial concern to the Government.
- -- Directed specific written critique of project problems to TRW management to ensure high level management attention.
- -- Scheduled visits by high level government executive managers from both agencies to review the status of the project and to keep government pressure on the contractor to overcome difficulties in the project development.

25X1

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(d) (U) What action has the DCI undertaken to obtain an independent assessment of the problem SAFE faces? What were these results?

(U)	During the period of November 1981 to February 1982 senior officials of the
DIA,	the IC Staff, and the CIA, to include members of the CIA Scientific and
Techr	ical Advisory Panel personally reviewed the status of the SAFE Project on-
site	with the CSPO in California. Based on the findings of these officials, 25X
a Tec	hnical Audit of the SAFE Project was initiated. The results will be available
for r	eview in mid-April 1982.

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(e) (U) When will the government know what system the prime contractor will deliver to DIA and CIA at IOC?

- (U) At this time there has been no change in government guidance to the contractor and the entire system from Block 1 through Block 4 as detailed in baseline system functional specifications is required and planned for delivery. Any preliminary delivery before Block 1 would be used for testing and evaluation purposes only.
- (U) As a result of the audit to be completed by 1 April and subsequent determinations of the technical feasibility and potential cost overruns, system requirements and delivery schedules may require revisions in the project. It is expected that these changes, if required, will be determined in the next two to three months.

Question III (2): (U) The DDCI recently acknowledged that Project SAFE is in considerable technical difficulty and his prognosis is not good that CIA and DIA will receive the system originally envisioned.
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(f) (U) The contract between the government provides for project termination. What penalties can the government impose if defaults? Could

deliver IOC systems which fall below contract specifications and not suffer

25X1

Answer:

severe contractual penalties?

- (U) The contract is a cost reimbursement type and failure of the contractor to perform adequately could result in a negotiated termination.
- The Government owns all material developed or purchased on the contract and could elect to turn them over to another contractor to complete the program.
- Default would likely result in _____ being removed from the bidder's list 25X1 on Agency business and is thus considered extremely unlikely.
- deliver a system which is unsatisfactory to the Agencies, the fee Should will be reduced to 3% of the target cost and will be zero on overrun cost. Again, future business potential is a greater incentive than the reduced profit penalty.

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(g) (U) What penalties or obligations does the government assume, would it decide to terminate the SAFE contract is 1982?

(U)	The major	loss	assumed	by the	Govern	ment is	the c	ost of	f substant	ial delay	of a
vita	lly needed	syste	m by the	e intel	ligence	analyst	s of	both /	Agencies.	Contracti	ually,
term	ination cos	sts of	the cur	rent c	ontract						25X1

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(h) (U) When will the government and the Congress become aware of the strategy needed to get SAFE back on cost and schedule?

Answer:

(U) The SAFE Project Plan, in conjunction with the primary technical review, provides the steps to be followed for the project. The CSPO is evaluating that plan but has authorized work to proceed for major portions of the development where technical issues are resolved. The government is expected to review its position with respect to the project as soon as the audit team completes its effort in April. Any changes in strategy for the project will be determined shortly thereafter and a report on the project will be provided to the committee.

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(i) (U) The SAFE management plan specifies that a Steering Committee, consisting of senior community officials, will periodically review project progress, and provide managerial direction as required. When did the SAFE Project Office inform the Steering Committee of the risks associated with SAFE? What action was taken? What contact has the Steering Committee had with management? 25X1

Answer:

- (U) The SAFE Steering Committee has been briefed quarterly on the Project Status since the Consolidated Project Office was formed (January 1978). The latest full Steering Committee meeting was held in December 1981, at which time the current problems of cost and schedule were fully addressed. A subsequent meeting has been scheduled for 12 March 1982 to brief the technical status, project progress, and related problems as a result of the Block 1 Preliminary Design Review. In addition, a Steering Committee meeting will be scheduled to review the results of the audit.
- (U) As a result of the December 1981 Steering Committee meeting, several members visited the facility to personally review project status. Several members of the committee also met with senior management to review the status of the project and advise the contractor of government concerns with the project status.

25X1

25X1

Question III (2): (U) The DDCI recently acknowledged that Project SAFE is in considerable technical difficulty and his prognosis is not good that CIA and DIA will receive the system originally envisioned.
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(j) (U) What actions have undertaken on behalf of SAFE in addition to 25X1 firing the project director? How satisfied are you with their responsiveness?
Answer:
(U) The government was unhappy with the responsiveness of the project manager.
The project manager was relieved within the last month and a replacement 25X1
has now been selected. In addition, key managers were replaced several months
ago in the Software Development, Communications and Systems Engineering areas
when CSPO criticized performance in those areas.
(U) In those technical and managerial areas that the government has provided
specific guidance as a result of award fee evaluations, has generally been 25X1
receptive to the guidance. In those instances that responsiveness has been viewed
as less than sastisfactory, subsequent award fees have continued to be reduced.
(U) Overall, while the contractor has stated a willingness to cooperate with the
(U) Overall, while the contractor has stated a willingness to cooperate with the government, the progress has not met government expectations as indicated by

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(k) (U) How has the separation between the SAFE Project Office in Washington and the facility in California contributed to the management and technical problems faced?	25X
Answer:	
(U) The separation of the project from the government's project office has	25X ²
contributed to the management problems by inhibiting an immediate communication	
on problems. This has been partially offset by a staff located in the	25 X °
CSPO office spaces and one government man located at Monthly	25 X °
management meetings and many regular topical/issue meetings, while costly and	
involving considerable TDY, are used extensively to maintain positive	
communications	

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(1) (U) What is the likely impact on DIA if continued reliance of DIAOLS is necessary? What happens when the DIA analyst work force begins moving into the new DIA building during 1983?

- (U) Assuming continued reliance on DIAOLS is required beyond the original projected complete phaseout in 1987, the analyst will have to continue to suffer with an increasingly outmoded and saturated system. It is likely that, if substantial delays are required beyond 1987 to phaseout DIAOLS, intelligence analysis and production will be degraded.
- (U) It is likely that all or part of the DIAOLS systems will be moved to the new DIA building to support analysts that will begin occupying that facility in 1984. It may prove feasible to begin installing SAFE in the new facility once Block 1 capabilities are available and can be interfaced with DIAOLS to also provide support to DIA analysts. SAFE could then continue to be expanded with capabilities through Block 4 added to replace DIAOLS.

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(m) (U) Given the likelihood of reduced initial operating capabilities and an extended period to achieve FOC, what revisions should be made to the FY 1983 budget request for SAFE? When will they be made known?

(U)	None,	specif	ically	for	FY	1983.
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(U) The budget request for FY 198	33 specifically was made in light of the most
recent estimate of project cost ar	nd is matched to the project needs. It represents
an increase above p	previously planned FY 1983 levels. Total project $^{25 exttt{X}}$
costs will be reevaluated in April	1 1982 when the technical audit findings are
available. Outyear projections wi	ill be revised at that time.